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PATENT  
ATTORNEY DOCKET NO.: 046124-5271

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
)  
Tadataka EDAMURA *et al.* ) Confirmation No.: 3944  
)  
Application No.: 10/776,615 ) Group Art Unit: 2828  
)  
Filed: February 12, 2004 ) Examiner: Unassigned  
)  
For: QUANTUM CASCADE LASER )

Commissioner for Patents  
U.S. Patent and Trademark Office  
220 20th Street S  
Customer Window  
Crystal Plaza Two, Lobby, Room 1B03  
Arlington, VA 22202

Sir:

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. § 1.97(b)**

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicants bring to the attention of the Examiner the documents listed on the attached PTO Form-1449. To the best of the undersigned's knowledge, this Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application.

Applicants respectfully request that the Examiner consider the listed documents and evidence that consideration by making appropriate notations on the attached PTO Form-1449.

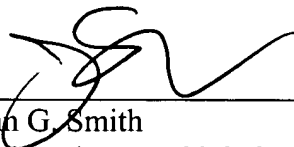
This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If it should be determined that any of the listed documents do not constitute "prior art" under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such document.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

**Except** for issue fees payable under 37 C.F.R. § 1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. § 1.16 and 1.17 which may be required, including any required extension of time fees, or credit any overpayment to Deposit Account No. 50-0310. This paragraph is intended to be a **CONSTRUCTIVE PETITION FOR EXTENSION OF TIME** in accordance with 37 C.F.R. § 1.136(a)(3).

Respectfully submitted,

**MORGAN, LEWIS & BOCKIUS LLP**



John G. Smith

Registration No. 33,818

Dated: July 9, 2004

**Customer No. 009629**  
**MORGAN, LEWIS & BOCKIUS LLP**  
1111 Pennsylvania Avenue, N.W.  
Washington, D.C. 20004  
(202) 739-3000

**INFORMATION DISCLOSURE CITATION**

(Use several sheets if necessary)

PTO Form-1449

Attorney Docket No.:

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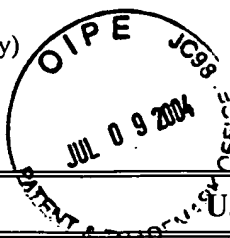
Applicant(s):

Tadataka EDAMURA *et al.*

PAGE 1 OF 1

Filing Date: February 12, 2004

Group: 2828

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date	Country	Class	Sub Class	Translation	
						Yes	No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	Bellaiche <i>et al.</i> , "Localization and Percolation in Semiconductor Alloys: GaAsN vs GaAsP", Physical Review B, Vol. 54, No. 24, December 15, 1996, pp. 17568-17576.
	Sirtori <i>et al.</i> , "Low-loss Al-free Waveguides for Unipolar Semiconductor Lasers", Applied Physics Letters, Vol. 75, No. 25, pp. 3911-3913, December 20, 1999.

Examiner

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication.